DETAILED ESTIMATE

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads and Drains at Thindlu and Kodigehalli Surrounding Areas in Ward No.09 Kodigehalli

								Estimation Cost.Rs	10000000.00
Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	For New Drain								
	Bank Colony								
	Main Road	Cum	2	110.00	1.10	1.05	254.10		
	For Culvert								
	Bank Colony								
	Main Road	Cum	1	5.30	1.40	0.95	7.05		
		Cum	1	5.00	1.40	0.95	6.65		
		Cum	1	4.60	1.40	0.95	6.12		
	Drain Desilt	**Cum**							
	VMS Layout								
	1st Main Road	Cum	2	69.00	0.45	0.50	31.05		
	2nd Cross Road	Cum	2	34.00	0.45	0.50	15.30		
	1st Cross Road	Cum	2	116.00	0.45	0.50	52.20		
	Bank Colony								
	1st Cross Road	Cum	2	114.00	0.45	0.45	46.17		
	2nd Cross Road	Cum	2	44.00	0.45	0.45	17.82		
	2nd cross Road	Cum	2	77.00	0.45	0.45	31.19		
	Hanuman Badavane								
	3rd Cross Road	Cum	2	37.00	0.45	0.45	14.99		
	4th Cross Road	Cum	2	35.00	0.45	0.45	14.18		
	5th Cross Road	Cum	2	34.00	0.45	0.45	13.77		
	6th Cross Road	Cum	2	31.00	0.45	0.45	12.56		
	Buddha Jyothi Layout								
	Main Road	Cum	2	75.00	0.45	0.45	30.38		
	1st Cross Road	Cum	2	95.00	0.45	0.45	38.48		
	1st CrossRoad -1st Cross Road	Cum	2	34.00	0.45	0.45	13.77		
	1st Cross Road- 2nd Cross	Cum	2	29.00	0.45	0.45	11.75		
	1st Cross Road-3rd Cross	Cum	2	26.00	0.45	0.45	10.53		
	1st Cross Road- 4th Cross	Cum	2	33.00	0.45	0.45	13.37		
	Road Overburden	**Cum**							
	Bank Colony								
	Main Road	Cum	1	10.00	0.60	0.30	1.80		
	Flagging coarse PCC								
	Bank Colony								
	1st Cross Road	Cum	2	114.00	0.20	0.10	4.56		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	2nd Cross Road	Cum	2	44.00	0.20	0.10	1.76		
	Basic rate	130.00							
	Area weightage 6%	7.80							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	**207.60**							
	Total						**649.51**	**207.60**	**134838.00**
2	**Removing and refixing** stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	BS slab of Drain								
	Open Drain (Sides & Bottom)	**Sqm**	Width=Perimeter of Drain in U Shape						
	Bank Colony								
	1st Cross Road	Sqm	2	114.00	1.35		307.80		
	2nd Cross Road	Sqm	2	44.00	1.35		118.80		
	2nd cross Road	Sqm	2	77.00	1.35		207.90		
	Hanuman Badavane								
	3rd Cross Road	Sqm	2	37.00	1.35		99.90		
	4th Cross Road	Sqm	2	35.00	1.35		94.50		
	5th Cross Road	Sqm	2	34.00	1.35		91.80		
	6th Cross Road	Sqm	2	31.00	1.35		83.70		
	Buddha Jyothi Layout								
	Main Road	Sqm	2	75.00	1.35		202.50		
	1st Cross Road	Sqm	2	95.00	1.35		256.50		
	1st CrossRoad -1st Cross Road	Sqm	2	34.00	1.35		91.80		
	1st Cross Road- 2nd Cross	Sqm	2	29.00	1.35		78.30		
	1st Cross Road-3rd Cross	Sqm	2	26.00	1.35		70.20		
	1st Cross Road- 4th Cross	Sqm	2	33.00	1.35		89.10		
						Total	**1792.80**		
	Deduct 20% for Missing/Damaged						**358.56**		
	Consider 80% Qnty for Removing & Refixing						**1434.24**		
	BS Drain Cover Slab	**Sqm**							
	VMS Layout								
	1st Main Road	Sqm	2	69.00	0.90		124.20		
	2nd Cross Road	Sqm	2	34.00	0.75		51.00		
	1st Cross Road	Sqm	2	116.00	0.75		174.00		
	Hanuman Badavane								
	3rd Cross Road	Sqm	2	37.00	0.90		66.60		
	5th Cross Road	Sqm	2	34.00	0.90		61.20		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Buddha Jyothi Layout								
	1st Cross Road	Sqm	2	95.00	0.90		171.00		
						Total	**648.00**		
	Deduct 20% for Missing/Damaged						**129.60**		
	Consider 80% Qnty for Removing & Refixing						**518.40**		
	Basic rate	105.00							
	Area weightage 6%	6.3							
	Sub Total	**111.30**							
	Total						**1952.64**	**111.30**	**217329.00**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.27,I.No.5.31.1)								
	Provide20% new BS Slab for Missing/Damaged	Sqm	From item no.2				**358.56**		
	Basic rate	700.00							
	Area weightage 6%	42							
	Sub Total	**742.00**							
	Total						**358.56**	**742.00**	**266052.00**
4	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.27,I.No.5.31.2)								
	Provide20% new BS Slab for Missing/Damaged	Sqm	From item no.2				**129.60**		
	Basic rate	912.00							
	Area weightage 6%	54.72							
	Sub Total	**966.72**							
	Total						**129.60**	**966.72**	**125287.00**
5	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.3)								
	For New Drain								
	Bank Colony								
	Main Road	Cum	2	110.00	1.10	0.15	36.30		
	For Culvert								
	Bank Colony								
	Main Road	Cum	1	5.30	1.40	0.15	1.11		
		Cum	1	5.00	1.40	0.15	1.05		
		Cum	1	4.60	1.40	0.15	0.97		
	Basic rate	5475.28							
	Area weightage 6%	328.52							
	Sub Total	**5803.80**							
	Total						**39.43**	**5803.80**	**228838.00**

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
Drain									
Bottom Raft	**Cum**								
Bank Colony									
Main Road	Cum	2	110.00	0.90	0.15	29.70			
Side Wall									
Bank Colony									
Main Road	Cum	4	110.00	0.15	0.75	49.50			
					Sub Total		**79.20**		
Culvert									
Bottom Raft									
Bank Colony									
Main Road	Cum	1	5.30	1.20	0.20	1.27			
	Cum	1	5.00	1.20	0.20	1.20			
	Cum	1	4.60	1.20	0.20	1.10			
Side Wall									
Bank Colony									
Main Road	Cum	2	5.30	0.20	0.60	1.27			
	Cum	2	5.00	0.20	0.60	1.20			
	Cum	2	4.60	0.20	0.60	1.10			
					Sub Total		**7.15**		
Basic rate	7292.14								
Area weightage 6%	437.53								
Sub Total	**7729.67**								
Total							**86.35**	**7729.67**	**667473.00**
7	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
For Drain	Cum	From Item No.06					79.20		
	kg	Steel assumed 60Kg/Cum of Concrete					4752.00		
	tonne						**4.75**		
For Culvert	Cum	From Item No.06					7.15		
	kg	Steel assumed 90 Kg/Cum of Concrete					643.68		
	tonne						**0.64**		
Basic rate	85468								
Area weightage 6%	5128.08								
Sub Total	**90596.08**								
Total							**5.40**	**90596.08**	**488828.00**

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	For New Drain								
	Bank Colony								
	Main Road	Sqm	2	110.00	0.90		198.00		
	Flagging Course Cover Slab								
	Bank Colony								
	1st Cross Road	Sqm	2	114.00	0.75		171.00		
	2nd Cross Road	Sqm	2	44.00	0.75		66.00		
	Data rate	**1922.00**							
	Total						**435.00**	**1922.00**	**836070.00**
9	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge(Data Rate)								
	Culver cover Slab	Sqm							
	Bank Colony								
	Main Road	Sqm	1	5.30	1.20		6.36		
		Sqm	1	5.00	1.20		6.00		
		Sqm	1	4.60	1.20		5.52		
	Data rate	**5418.00**							
	Total						**17.88**	**5418.00**	**96874.00**
10	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	Flagging coarse PCC								
	Bank Colony								
	1st Cross Road	Cum	2	114.00	0.20	0.10	4.56		
	2nd Cross Road	Cum	2	44.00	0.20	0.10	1.76		
	Flagging coarse Coping								
	Bank Colony								
	1st Cross Road	Cum	4	114.00	0.20	0.10	9.12		
	2nd Cross Road	Cum	4	44.00	0.20	0.10	3.52		
	Basic rate	5919.71							
	Area weightage 6%	355.18							
	Sub Total	**6274.89**							
	Total						**18.96**	**6274.89**	**118972.00**
11	KSRB 5-14.1 : Providing and constructing load bearing wall with **solid concrete blocks** having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4. (P.No-27,I No-5.26.2) solid concrete blocks of size 400x150x200mm								
	Flagging coarse	**Sqm**							
	Bank Colony								
	1st Cross Road	Sqm	12	114.00		0.20	273.60		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	2nd Cross Road	Sqm	12	44.00		0.20	105.60		
	Basic rate	924.00							
	Area weightage 6%	55.44							
	Sub Total	**979.44**							
	Total						**379.20**	**979.44**	**371404.00**
12	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 5km lead= (I No-19.14,P No-143)								
	UGD Cut Portion	**Cum**							
	Bank Colony								
	1st Cross Road	Cum	4	5.00	4.30	0.23	19.78		
	2nd Cross Road	Cum	3	6.00	4.20	0.23	17.39		
	2nd cross Road	Cum	3	4.00	4.00	0.23	11.04		
	New Road								
	Bank Colony								
	Main Road	Cum	1	44.00	5.60	0.15	36.96		
	Basic rate	41.00							
	Area weightage 6%	2.46							
	5Km lead= (2*1.28*5)	12.80							
	Sub Total	**56.26**							
	Total						**85.17**	**56.26**	**4792.00**
13	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	VMS Layout	**Sqm**							
	1st Main Road	Sqm	1	69.00	5.60		386.40		
	2nd Cross Road	Sqm	1	34.00	4.00		136.00		
	1st Cross Road	Sqm	1	116.00	4.00		464.00		
	Bank Colony								
	Main Road	Sqm	1	65.00	5.60		364.00		
	Hanuman Badavane								
	3rd Cross Road	Sqm	1	37.00	3.00		111.00		
	4th Cross Road	Sqm	1	35.00	3.50		122.50		
	5th Cross Road	Sqm	1	34.00	3.60		122.40		
	6th Cross Road	Sqm	1	31.00	4.00		124.00		
	Buddha Jyothi Layout								
	Main Road	Sqm	1	75.00	4.60		345.00		
	1st Cross Road	Sqm	1	95.00	4.20		399.00		
	1st CrossRoad -1st Cross Road	Sqm	1	34.00	4.20		142.80		
	1st Cross Road- 2nd Cross	Sqm	1	29.00	4.20		121.80		
	1st Cross Road-3rd Cross	Sqm	1	26.00	4.50		117.00		
	1st Cross Road- 4th Cross	Sqm	1	33.00	4.70		155.10		
	Basic rate	39.00							
	Area weightage 6%	2.34							
	Sub Total	**41.34**							
	Total						**3111.00**	**41.34**	**128609.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
14	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	for New Road	**Sqm**							
	VMS Layout								
	1st Main Road	Sqm	1	69.00	5.60		386.40		
	2nd Cross Road	Sqm	1	34.00	4.00		136.00		
	1st Cross Road	Sqm	1	116.00	4.00		464.00		
	Bank Colony								
	Main Road	Sqm	1	110.00	5.60		616.00		
	Hanuman Badavane								
	3rd Cross Road	Sqm	1	37.00	3.00		111.00		
	4th Cross Road	Sqm	1	35.00	3.50		122.50		
	5th Cross Road	Sqm	1	34.00	3.60		122.40		
	6th Cross Road	Sqm	1	31.00	4.00		124.00		
	Buddha Jyothi Layout								
	Main Road	Sqm	1	75.00	4.60		345.00		
	1st Cross Road	Sqm	1	95.00	4.20		399.00		
	1st CrossRoad -1st Cross Road	Sqm	1	34.00	4.20		142.80		
	1st Cross Road- 2nd Cross	Sqm	1	29.00	4.20		121.80		
	1st Cross Road-3rd Cross	Sqm	1	26.00	4.50		117.00		
	1st Cross Road- 4th Cross	Sqm	1	33.00	4.70		155.10		
	Basic rate	6.00							
	Area weightage 6%	0.36							
	Sub Total	**6.36**							
	Total						**3363.00**	**6.36**	**21389.00**
15	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	For new Road								
	Bank Colony								
	Main Road	Cum	1	44.00	5.60	0.15	36.96		
	Basic rate	1882.00							
	Area weightage 6%	112.92							
	Sub Total	**1994.92**							
	Total						**36.96**	**1994.92**	**73733.00**
16	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	For New Road	**Cum**							
	VMS Layout								
	1st Main Road	Cum	1	69.00	5.60	0.23	88.87		
	2nd Cross Road	Cum	1	34.00	4.00	0.23	31.28		
	1st Cross Road	Cum	1	116.00	4.00	0.23	106.72		
	Bank Colony								
	Main Road	Cum	1	110.00	5.60	0.23	141.68		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Hanuman Badavane								
	3rd Cross Road	Cum	1	37.00	3.00	0.23	25.53		
	4th Cross Road	Cum	1	35.00	3.50	0.23	28.18		
	5th Cross Road	Cum	1	34.00	3.60	0.23	28.15		
	6th Cross Road	Cum	1	31.00	4.00	0.23	28.52		
	Buddha Jyothi Layout								
	1st Cross Road	Cum	1	95.00	4.20	0.23	91.77		
	1st CrossRoad -1st Cross Road	Cum	1	34.00	4.20	0.23	32.84		
	1st Cross Road- 2nd Cross	Cum	1	29.00	4.20	0.23	28.01		
	1st Cross Road-3rd Cross	Cum	1	26.00	4.50	0.23	26.91		
	1st Cross Road- 4th Cross	Cum	1	33.00	4.70	0.23	35.67		
	Buddha Jyothi Layout								
	Main Road	Cum	1	75	4.60	0.23	79.35		
	For Cut Portion								
	Bank Colony								
	1st Cross Road	Cum	4	5.00	4.30	0.23	19.78		
	2nd Cross Road	Cum	3	6.00	4.20	0.23	17.39		
	2nd cross Road	Cum	3	4.00	4.00	0.23	11.04		
	Basic rate	1888.00							
	Area weightage 6%	113.28							
	Sub Total	**2001.28**							
	Total						**821.70**	**2001.28**	**1644448.00**
	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Provide 15% Profile Correction for old Road	Sqm	From Item No.19				166.19		
	New Road								
	VMS Layout								
	1st Main Road	Sqm	1	69.00	5.60		386.40		
	2nd Cross Road	Sqm	1	34.00	4.00		136.00		
	1st Cross Road	Sqm	1	116.00	4.00		464.00		
	Bank Colony								
	Main Road	Sqm	1	110.00	5.60		616.00		
	Hanuman Badavane								
	3rd Cross Road	Sqm	1	37.00	3.00		111.00		
	4th Cross Road	Sqm	1	35.00	3.50		122.50		
	5th Cross Road	Sqm	1	34.00	3.60		122.40		
	6th Cross Road	Sqm	1	31.00	4.00		124.00		
	Buddha Jyothi Layout								
	1st Cross Road	Sqm	1	95.00	4.20		399.00		
	1st CrossRoad -1st Cross Road	Sqm	1	34.00	4.20		142.80		
	1st Cross Road- 2nd Cross	Sqm	1	29.00	4.20		121.80		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	1st Cross Road-3rd Cross	Sqm	1	26.00	4.50		117.00		
	1st Cross Road- 4th Cross	Sqm	1	33.00	4.70		155.10		
	For Cut Portion								
	Buddha Jyothi Layout								
	Main Road	Sqm	1	75.00	4.60		345.00		
	Bank Colony								
	1st Cross Road	Sqm	4	5.00	4.30		86.00		
	2nd Cross Road	Sqm	3	6.00	4.20		75.60		
	2nd cross Road	Sqm	3	4.00	4.00		48.00		
	Basic rate	32.00							
	Area weightage 6%	1.92							
	Sub Total	**33.92**							
	Total						**3738.79**	**33.92**	**126820.00**
18	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.4 % VG-30 Bitumen(P.No.159,I.No.21.11.6).								
	Provide 15% Profile Correction for old Road	**Sqm**	**From Item No.19**				1107.90		
		Cum		166.19		0.05	8.31		
	Road Cut Portion								
	Bank Colony								
	1st Cross Road	Cum	4	5.00	4.30	0.05	4.30		
	2nd Cross Road	Cum	3	6.00	4.20	0.05	3.78		
	2nd cross Road	Cum	3	4.00	4.00	0.05	2.40		
	For Scarified Portion								
	Buddha Jyothi Layout								
	Main Road	Cum	1	75.00	4.60	0.05	17.25		
	New Road								
	VMS Layout								
	1st Main Road	Cum	1	69.00	5.60	0.05	19.32		
	2nd Cross Road	Cum	1	34.00	4.00	0.05	6.80		
	1st Cross Road	Cum	1	116.00	4.00	0.05	23.20		
	Bank Colony								
	Main Road	Cum	1	110.00	5.60	0.05	30.80		
	Hanuman Badavane								
	3rd Cross Road	Cum	1	37.00	3.00	0.05	5.55		
	4th Cross Road	Cum	1	35.00	3.50	0.05	6.13		
	5th Cross Road	Cum	1	34.00	3.60	0.05	6.12		
	6th Cross Road	Cum	1	31.00	4.00	0.05	6.20		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Buddha Jyothi Layout								
	1st Cross Road	Cum	1	95.00	4.20	0.05	19.95		
	1st CrossRoad -1st Cross Road	Cum	1	34.00	4.20	0.05	7.14		
	1st Cross Road- 2nd Cross	Cum	1	29.00	4.20	0.05	6.09		
	1st Cross Road-3rd Cross	Cum	1	26.00	4.50	0.05	5.85		
	1st Cross Road- 4th Cross	Cum	1	33.00	4.70	0.05	7.76		
	Basic rate	6384.00							
	Area weightage 6%	383.04							
	Sub Total	**6767.04**							
	Total						**186.94**	**6767.04**	**1265026.00**
19	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).								
	Bank Colony								
	1st Cross Road	Sqm	1	114.00	5.00		570.00		
	2nd Cross Road	Sqm	1	44.00	4.70		206.80		
	2nd cross Road	Sqm	1	77.00	4.30		331.10		
	Basic rate	5.00							
	Area weightage 6%	0.3							
	Sub Total	**5.30**							
	Total						**1107.90**	**5.30**	**5872.00**
20	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	VMS Layout	**Sqm**							
	1st Main Road	Sqm	1	69.00	5.60		386.40		
	2nd Cross Road	Sqm	1	34.00	4.00		136.00		
	1st Cross Road	Sqm	1	116.00	4.00		464.00		
	Bank Colony								
	Main Road	Sqm	1	110.00	5.60		616.00		
	1st Cross Road	Sqm	1	114.00	5.00		570.00		
	2nd Cross Road	Sqm	1	44.00	4.70		206.80		
	2nd cross Road	Sqm	1	77.00	4.30		331.10		
	Hanuman Badavane								
	3rd Cross Road	Sqm	1	37.00	3.00		111.00		
	4th Cross Road	Sqm	1	35.00	3.50		122.50		
	5th Cross Road	Sqm	1	34.00	3.60		122.40		
	6th Cross Road	Sqm	1	31.00	4.00		124.00		
	Buddha Jyothi Layout								
	Main Road	Sqm	1	75.00	4.60		345.00		
	1st Cross Road	Sqm	1	95.00	4.20		399.00		
	1st CrossRoad -1st Cross Road	Sqm	1	34.00	4.20		142.80		
	1st Cross Road- 2nd Cross	Sqm	1	29.00	4.20		121.80		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	1st Cross Road-3rd Cross	Sqm	1	26.00	4.50		117.00		
	1st Cross Road- 4th Cross	Sqm	1	33.00	4.70		155.10		
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	**12.72**							
	Total						**4470.90**	**12.72**	**56870.00**
21	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 507 of MORTH V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-ll (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-162,I No-21.22.6)								
	VMS Layout	Cum							
	1st Main Road	Cum	1	69.00	5.60	0.04	15.46		
	2nd Cross Road	Cum	1	34.00	4.00	0.04	5.44		
	1st Cross Road	Cum	1	116.00	4.00	0.04	18.56		
	Bank Colony								
	Main Road	Cum	1	110.00	5.60	0.04	24.64		
	1st Cross Road	Cum	1	114.00	5.00	0.04	22.80		
	2nd Cross Road	Cum	1	44.00	4.70	0.04	8.27		
	2nd cross Road	Cum	1	77.00	4.30	0.04	13.24		
	Hanuman Badavane								
	3rd Cross Road	Cum	1	37.00	3.00	0.04	4.44		
	4th Cross Road	Cum	1	35.00	3.50	0.04	4.90		
	5th Cross Road	Cum	1	34.00	3.60	0.04	4.90		
	6th Cross Road	Cum	1	31.00	4.00	0.04	4.96		
	Buddha Jyothi Layout								
	Main Road	Cum	1	75.00	4.60	0.04	13.80		
	1st Cross Road	Cum	1	95.00	4.20	0.04	15.96		
	1st CrossRoad -1st Cross Road	Cum	1	34.00	4.20	0.04	5.71		
	1st Cross Road- 2nd Cross	Cum	1	29.00	4.20	0.04	4.87		
	1st Cross Road-3rd Cross	Cum	1	26.00	4.50	0.04	4.68		
	1st Cross Road- 4th Cross	Cum	1	33.00	4.70	0.04	6.20		
	Basic rate	9435.00							
	Area weightage 6%	566.10							
	Sub Total	**10001.10**							
	Total						**178.84**	**10001.10**	**1788557.00**
22	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	VMS Layout	**Sqm**							
	1st Main Road	Sqm	2	69.00	0.10		13.80		
	2nd Cross Road	Sqm	2	34.00	0.10		6.80		
	1st Cross Road	Sqm	2	116.00	0.10		23.20		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Bank Colony								
	Main Road	Sqm	2	110.00	0.10		22.00		
	1st Cross Road	Sqm	2	114.00	0.10		22.80		
	2nd Cross Road	Sqm	2	44.00	0.10		8.80		
	2nd cross Road	Sqm	2	77.00	0.10		15.40		
	Hanuman Badavane								
	3rd Cross Road	Sqm	0.5	37.00	0.10		1.85		
	4th Cross Road	Sqm	0.5	35.00	0.10		1.75		
	5th Cross Road	Sqm	0.5	34.00	0.10		1.70		
	6th Cross Road	Sqm	0.5	31.00	0.10		1.55		
	Buddha Jyothi Layout								
	Main Road	Sqm	2	75.00	0.10		15.00		
	1st Cross Road	Sqm	2	95.00	0.10		19.00		
	1st CrossRoad -1st Cross Road	Sqm	2	34.00	0.10		6.80		
	1st Cross Road- 2nd Cross	Sqm	2	29.00	0.10		5.80		
	1st Cross Road-3rd Cross	Sqm	2	26.00	0.10		5.20		
	1st Cross Road- 4th Cross	Sqm	2	33.00	0.10		6.60		
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	**454.74**							
	Total						**178.05**	**454.74**	**80967.00**
								Grand Total	**8749048.00**
								GST Charges (12% of estimated cost)	**1049886.00**
								DPR Charges (1% of estimated cost)	**100000.00**
								Project management And Consultancy Charges(1% of estimated cost)	**100000.00**
								Miscellenious and rounding	**1066.00**
								Total Amount	**10000000.00**
								RUPEES ONE CRORE ONLY	

Administrative Approval
Accorded For R.S.I.W.S. Maldona
Head of A/C
CER NO ..... Dt: 22.10.2021

TA CE (YNK)

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP, Bangalore - 97

Executive Engineer
BBMP

RUDRAPRASAD CONSULTANTS
BANGALORE

Technical Sanction
Accorded for Rs 100.00 Lakhs.
Head of A/C .....
CER NO : 58 ..... Dt: 22.10.21

CE

Sl. NO	Specification No	Units	Rate Considered in 2018-19 SR from 10-10-2018 to 09-04-2019	Rate of per bag of Cement Considered in 2018-19 SR from 10-10-2018 to 09-04-2019	Rate of per bag of Cement wef 02-11-2021	Qty Of Cement used in (Kgs) per Cum of Cencrete as per SR 2018-19 Specification	no of Bags of Cement used	Amout in Rs considering Rate per bag as per 2018-19 SR From 10-10-2018 to 09-04-2019 for No. of bags used in one Cum of Concrete	Amout in Rs. considering Rate per bag wef 02-11-2021 for No. of bags used in one Cum of Concrete	Rate Considered in 2018-19 SR wef 02-11-2021
			[1]	[2]	[3]	[4]	[5]=[4]/50	[6]=[5]x[2]	[7]=[5]x[3]	[8]=[1]-[6]+[7]
1	4.6	Cum	5422	245.31	349.00	240	4.8	1177.488	1675.2	5919.71
2	37.59.2	Cum	6670	245.31	349.00	300	6	1471.86	2094	7292.14
3	4.3	Cum	5102	245.31	349.00	180	3.6	883.116	1256.4	5475.28

RUDRAPRASAD CONSULTANTS
BANGALORE